

NAME

Time:

Non-Calculator Questions



1 a Solve $5x = 30$

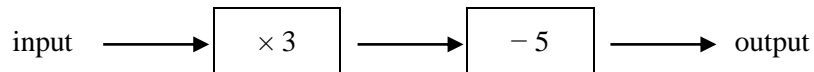
(1 mark)

b Solve $y - 7 = 15$

(1 mark)



3 Here is a function machine.



Work out the input when the output is 13

(2 marks)



5 $a = pt + q$

$p = -1, t = 4$ and $q = 6$

Work out the value of a .

(2 marks)



7 Oliver thinks of a number.

He multiplies this number by 4.

He then subtracts 5.

The result is 23.

What number did Oliver think of?

(3 marks)



9 $-2 \leq t < 3$

t is an integer.

Write down all the possible values of t .

(2 marks)



11 Solve $7(x - 2) = 3x - 2$

(3 marks)



13 **Beth is x years old.**

Candice is three years older than Beth.

Aran is four years younger than Beth.

The total of their ages is 35

Work out the value of x .

(4 marks)



15 Here are the first six terms of an arithmetic sequence.

4 9 14 19 24

Find an expression, in terms of n , for the n th term of this sequence

(2 marks)

Overall mark	/20
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